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ABSTRACT OF THE DISCLOSURE

A receiver front-end for use in a transceiver station of a wireless communication network. The transceiver station is associated with an antenna assembly having a primary and at least a secondary antenna. The receiver front-end is adapted for insertion between the antenna assembly and signal processing sections of the transceiver station. The receiver front-end includes a primary and at least a secondary receiving branch, the primary receiving branch being adapted for coupling to the primary antenna and to the signal processing sections of the transceiver station, the secondary receiving branch being adapted for coupling to the secondary antenna and to the signal processing sections. The primary receiving branch has nonsuperconducting components, including at least a non superconducting filter while the secondary receiving branch has at least a superconducting component.